

**REPLACEMENT SHEET**

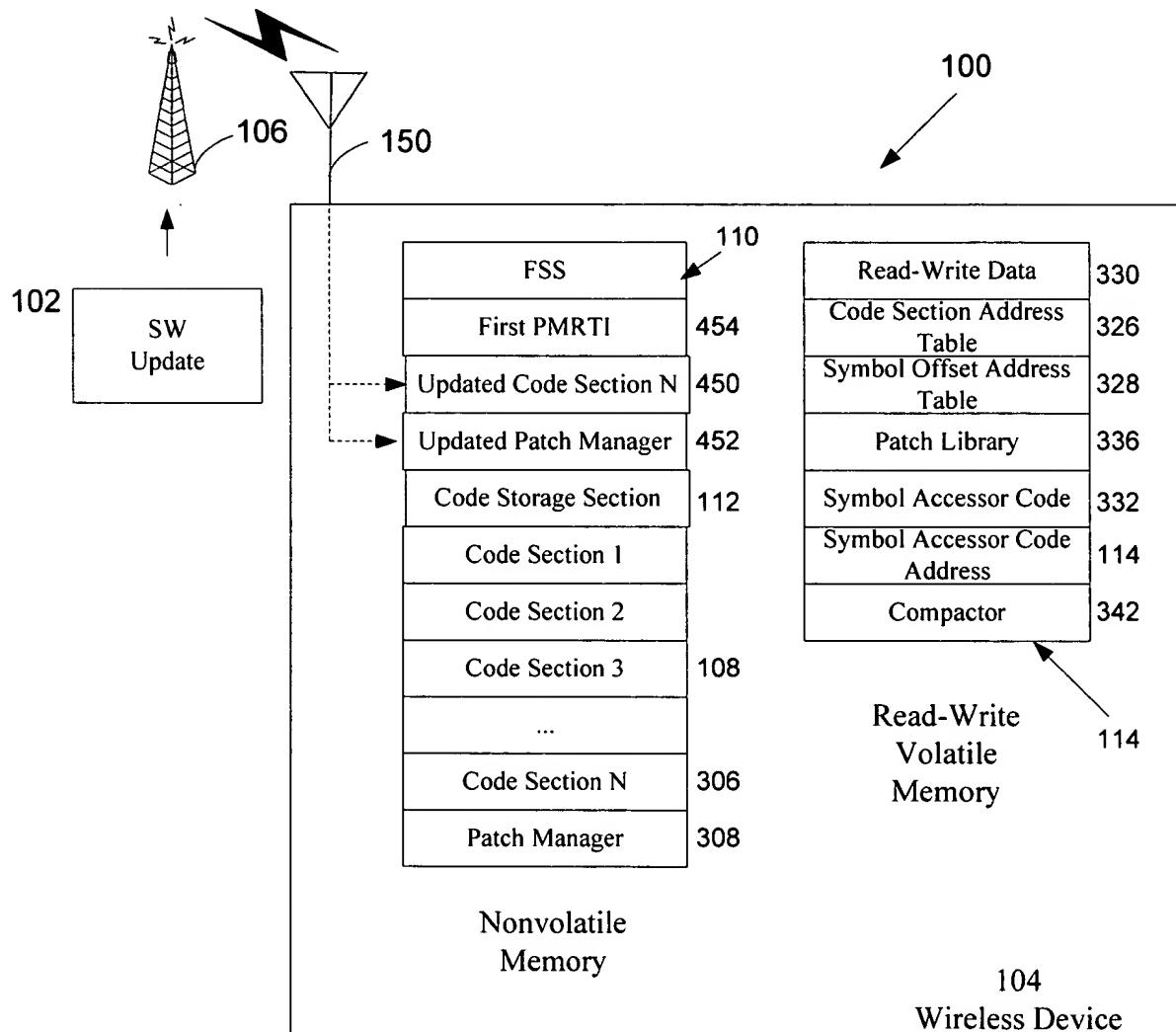
Title: SYSTEM AND METHOD FOR COMPACTING FIELD UPGRADEABLE  
WIRELESS COMMUNICATION DEVICE

Inventor(s): RAJARAM, Gowri and KAPLAN, Diego

Attorney Docket No.: UTL 00103



**Figure 1**  
**Wireless Device With OTA Updatable  
Software Architecture**



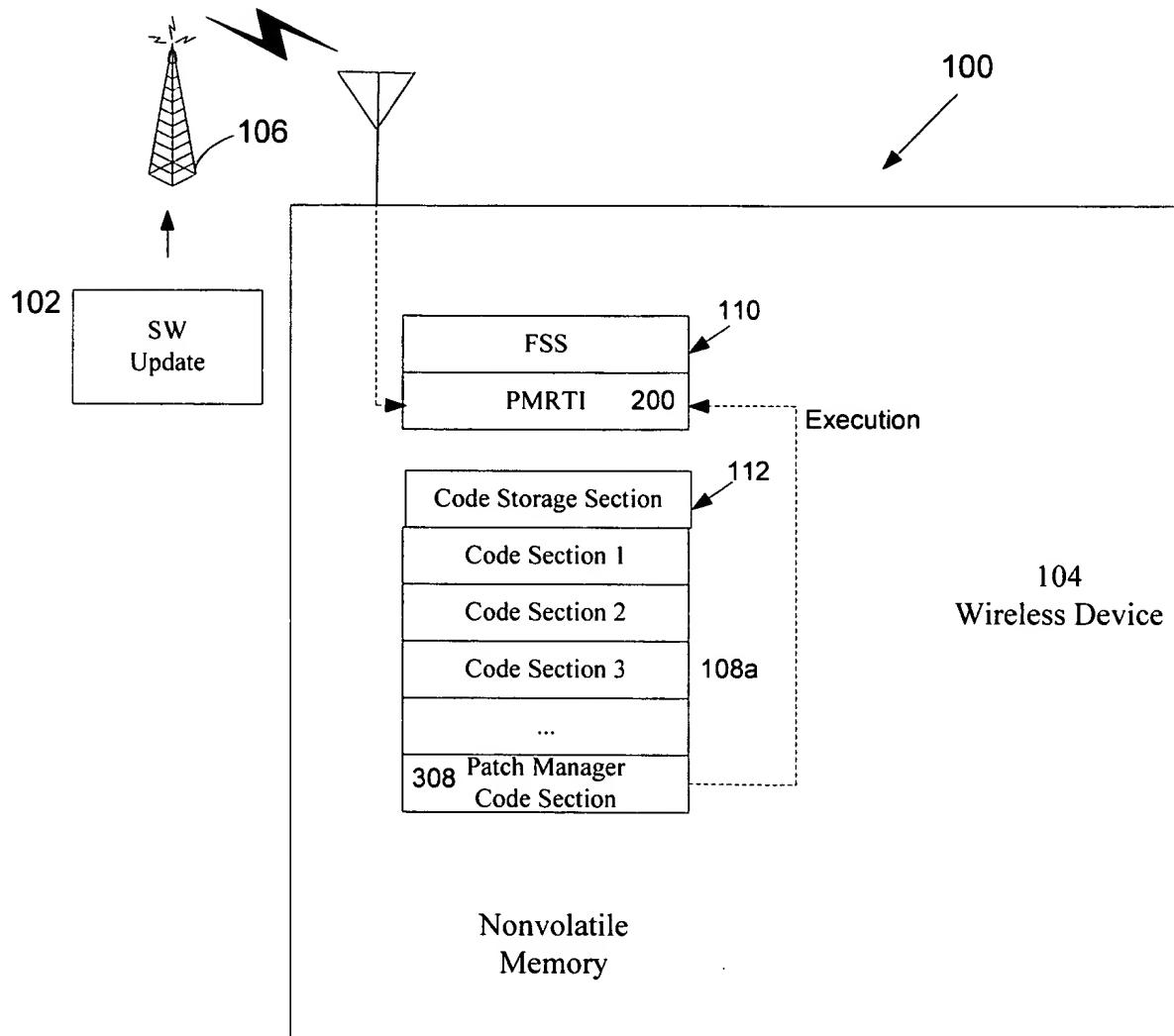
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**Figure 2**  
**Wireless Device OTA Software**  
**Maintenance System**



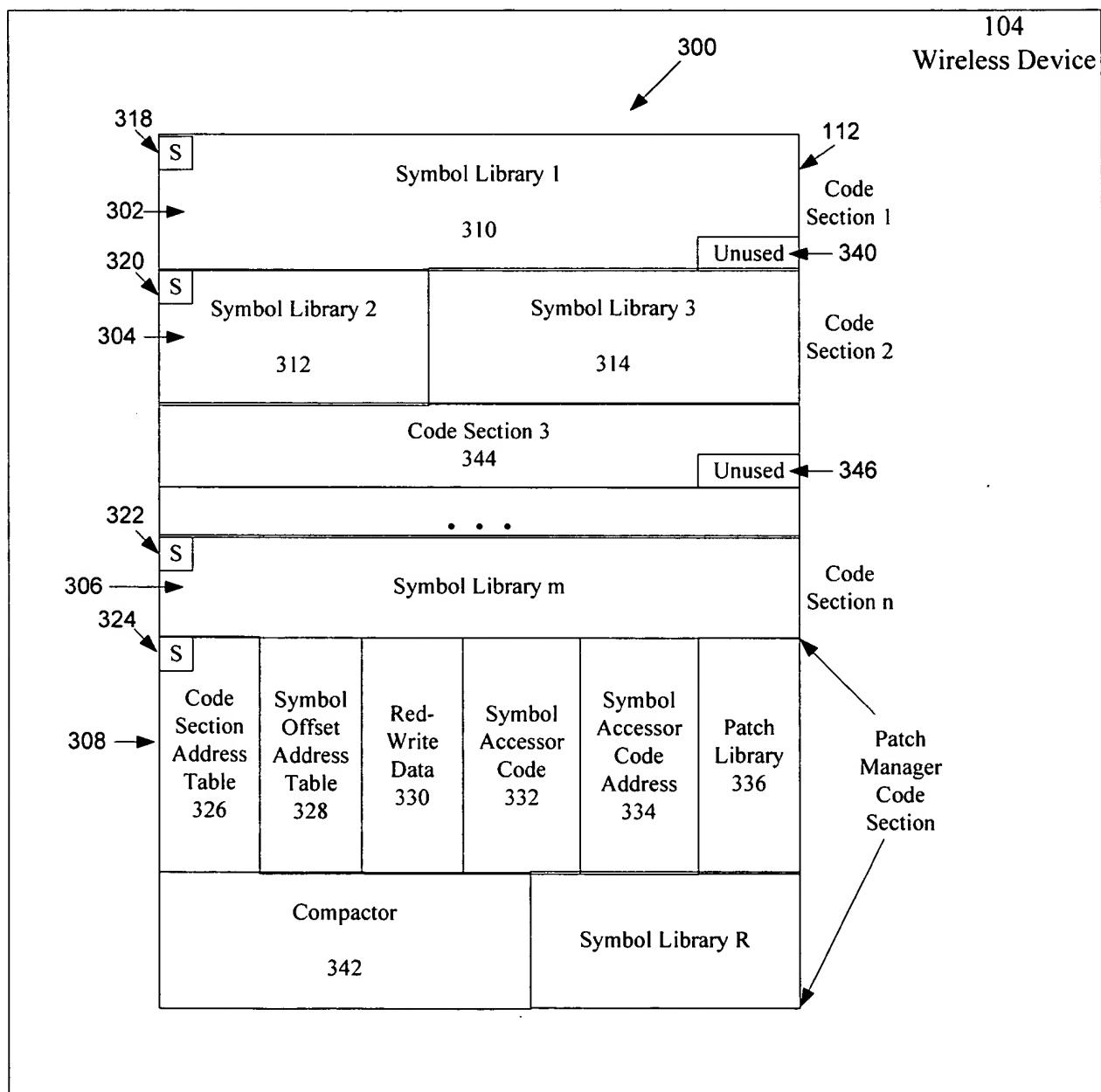
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Figure 3  
Wireless Device OTA Software  
Maintenance/Reorganizing Block Diagram



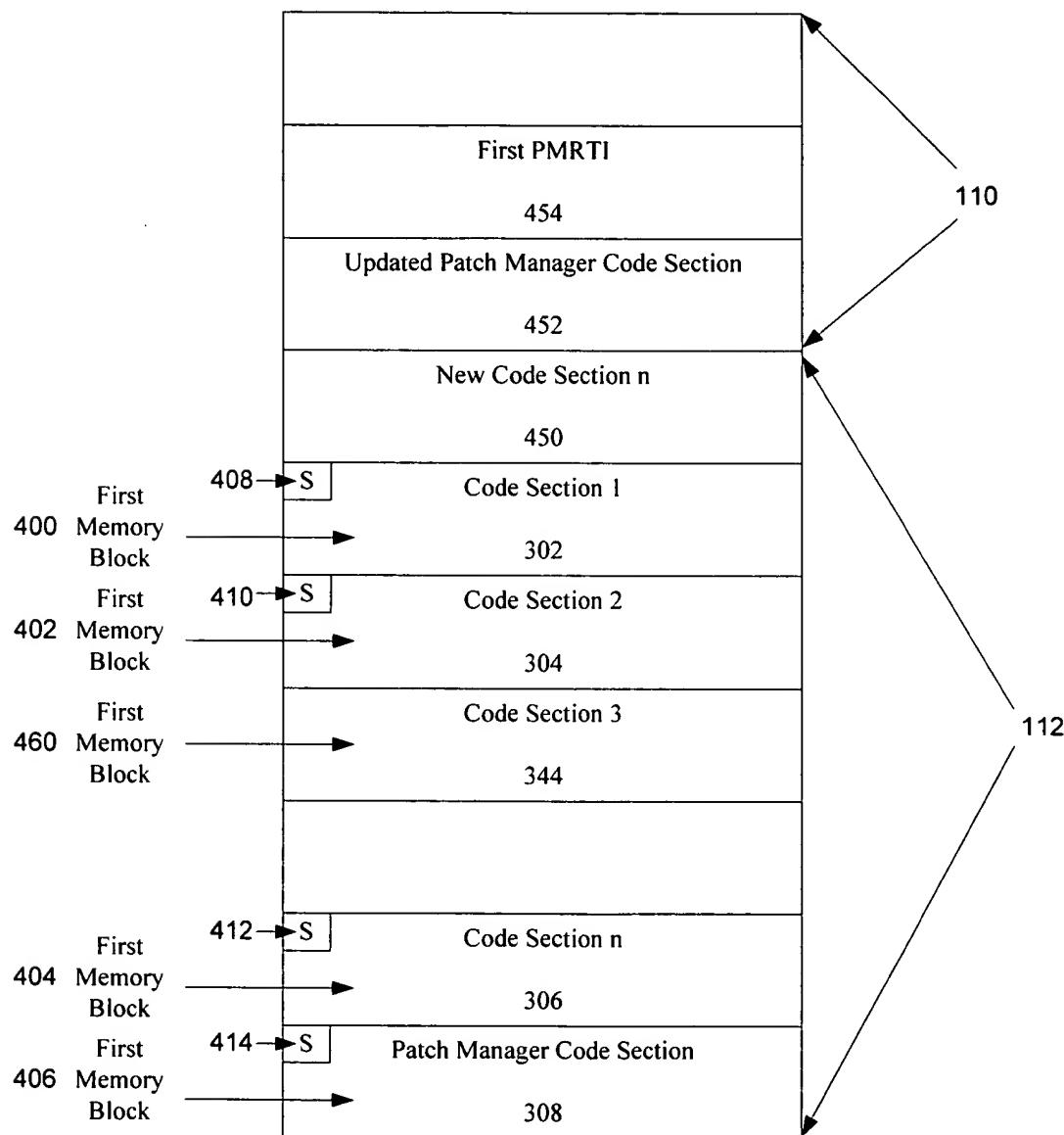
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**Figure 4**  
**Wireless Device Memory Diagram**



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**Figure 5**  
**Code Section Address Table**

326

Code Section Address Table	
IDENTIFIERS	ADDRESSES
CS_1	Start Address 1 (00100)
CS_2	Start Address 2 (00200)
...	...
CS_n	Start Address n (00700)
PM	Start Address p (01000)

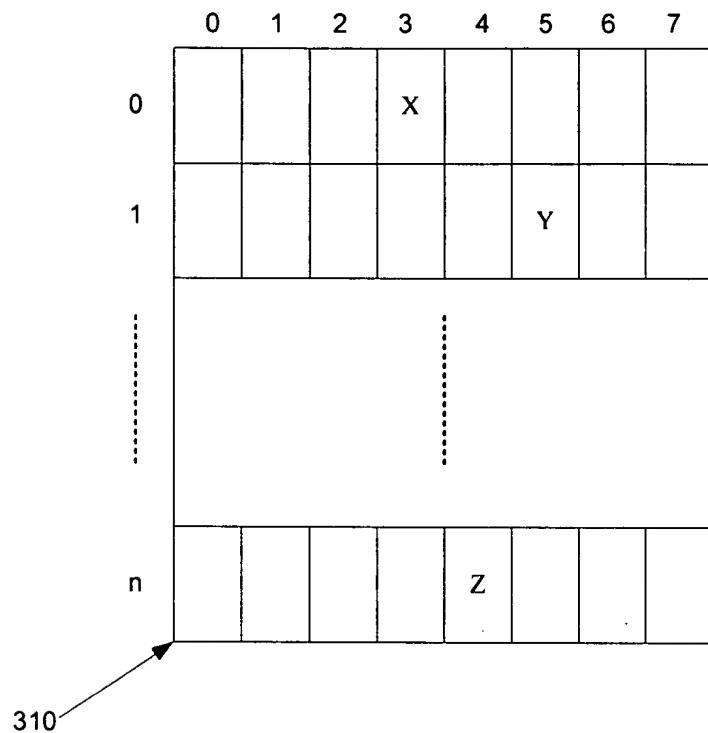
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**Figure 6**  
**Symbol Library 1**



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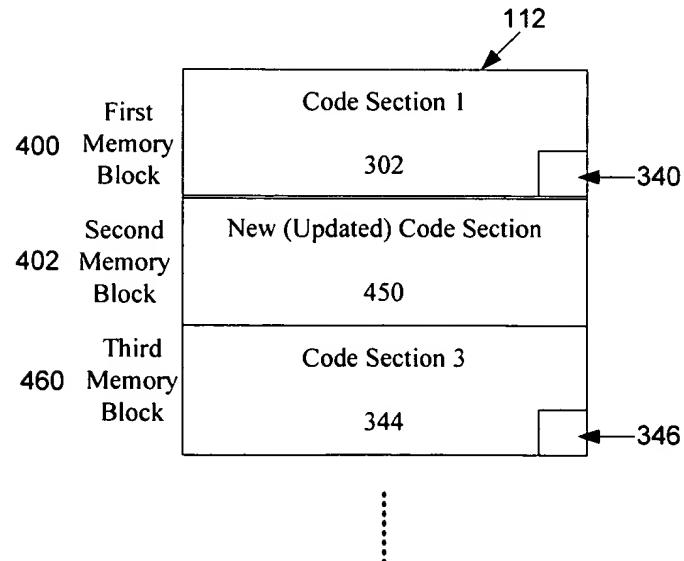
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**Figure 7**  
**Symbol Offset Address**  
**Table**

Symbol Offset Address Table		
Symbol ID	Code Section ID	Offset
X_1	CS_1	03
Y_1	CS_1	15
P_1	CS_2	11
Q_1	CS_2	33
AA_3	CS_2	47

**Figure 8**  
**Exemplar**  
**Compacting**  
**Results**



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Figure 9a  
Exemplar  
Compaction  
Action

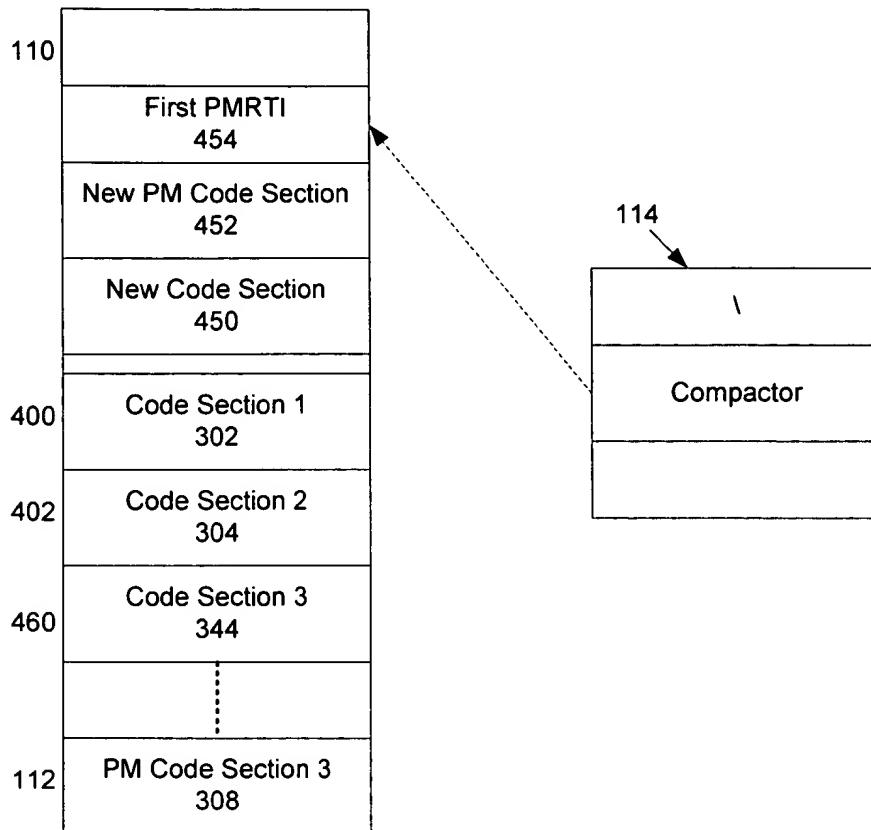
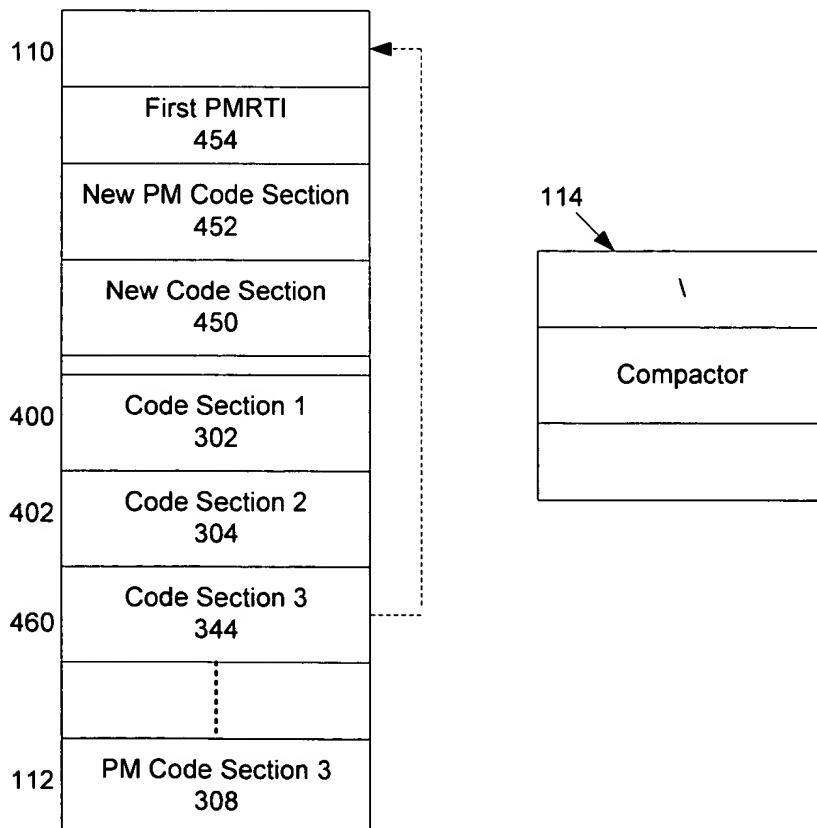


Figure 9b  
Exemplar  
Compaction  
Action



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Figure 9c  
Exemplar  
Compaction  
Action

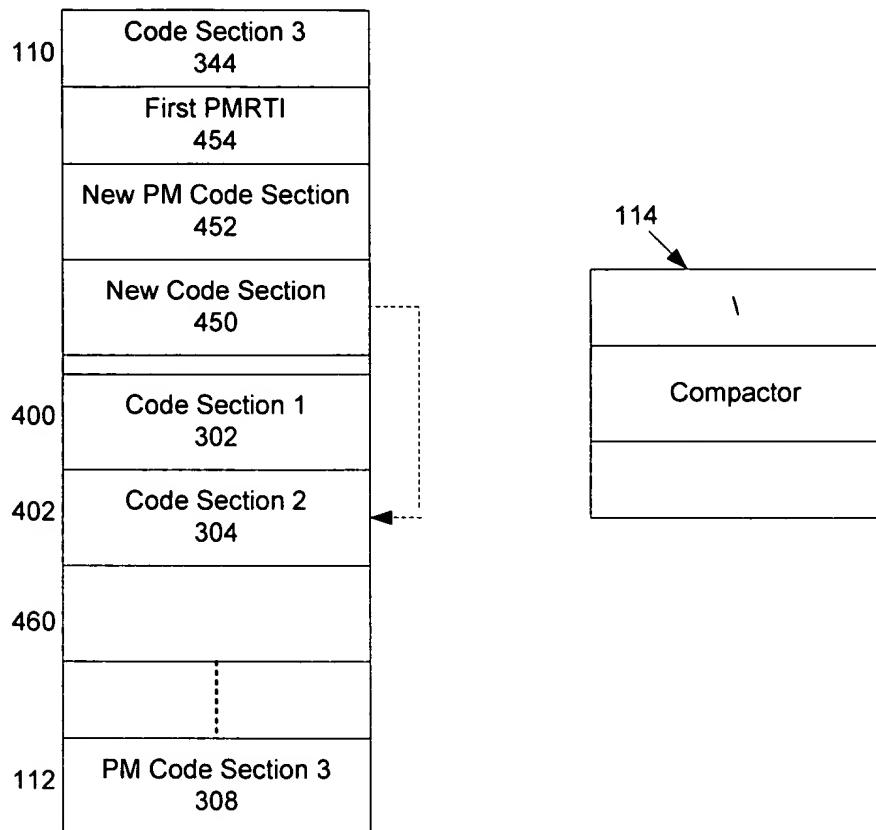
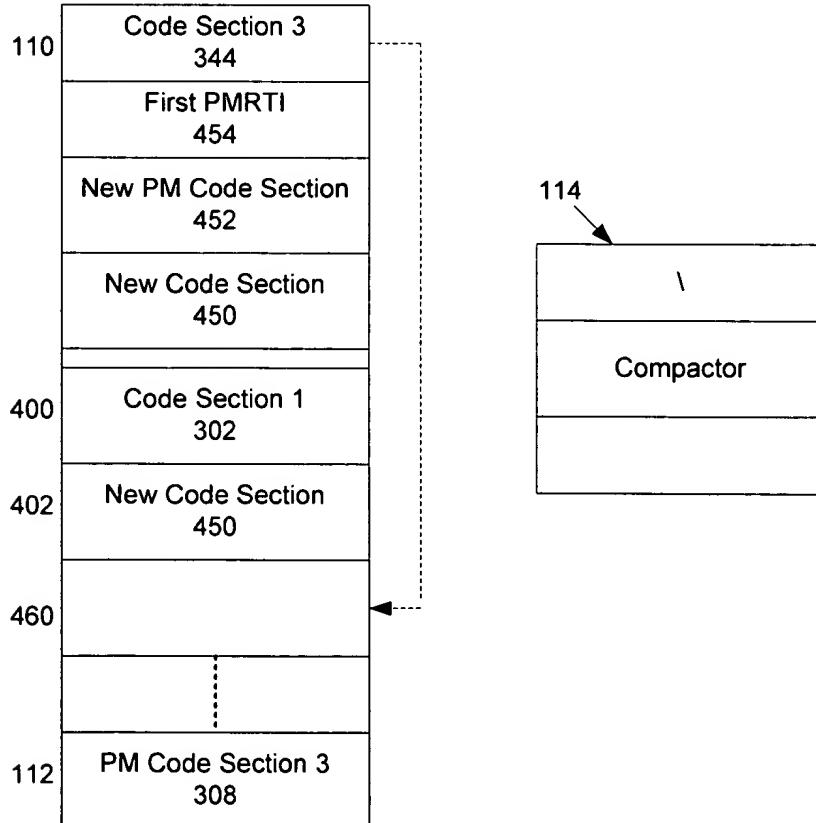


Figure 9d  
Exemplar  
Compaction  
Action



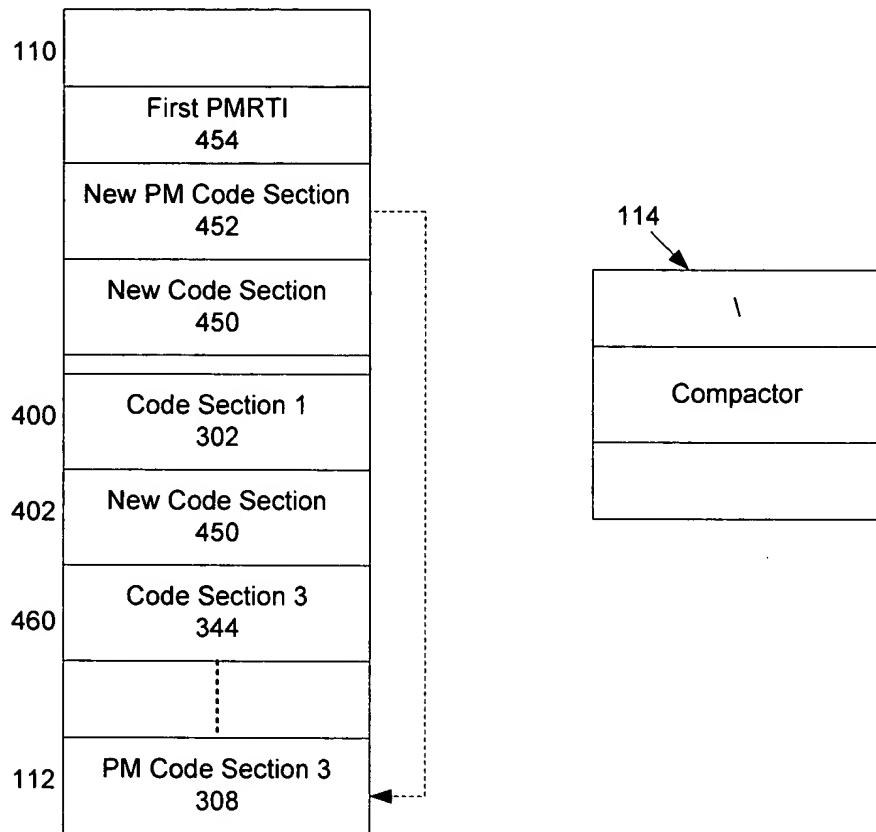
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**Figure 9e  
Exemplar  
Compaction  
Action**



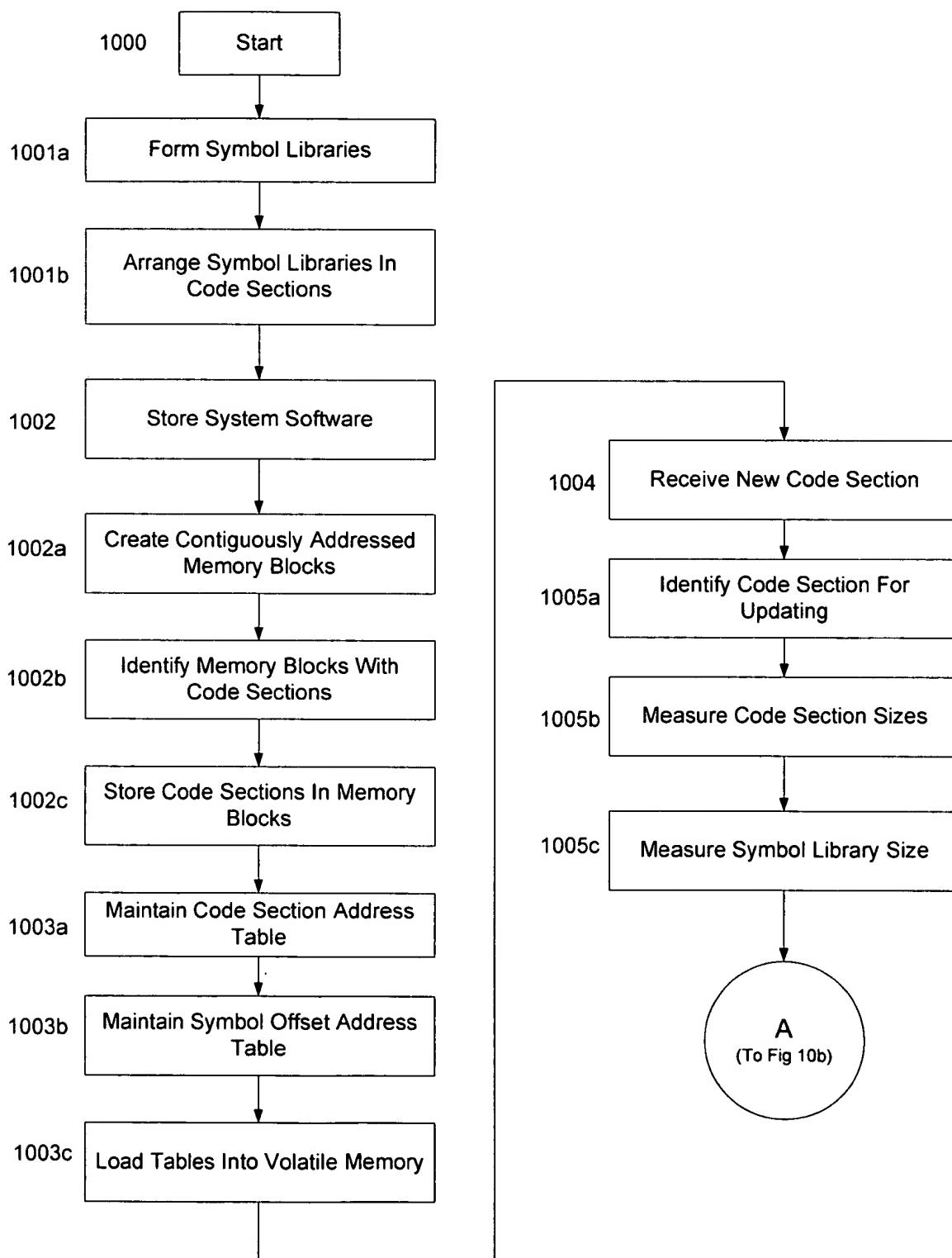
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**Figure 10a**  
**Reorganizing Software In A**  
**Wireless Communications**  
**Device**



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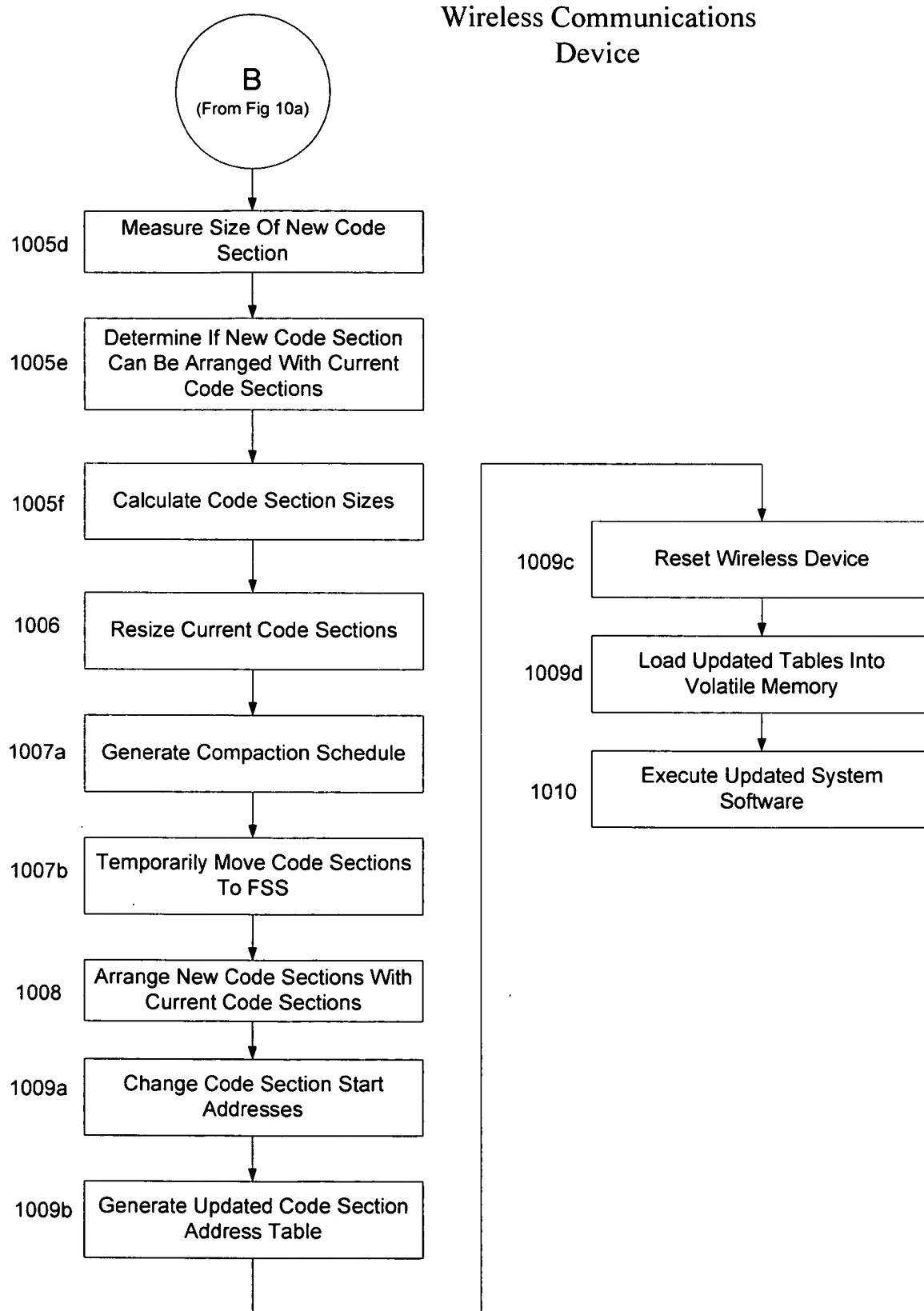
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Figure 10b

Reorganizing Software In A  
Wireless Communications  
Device

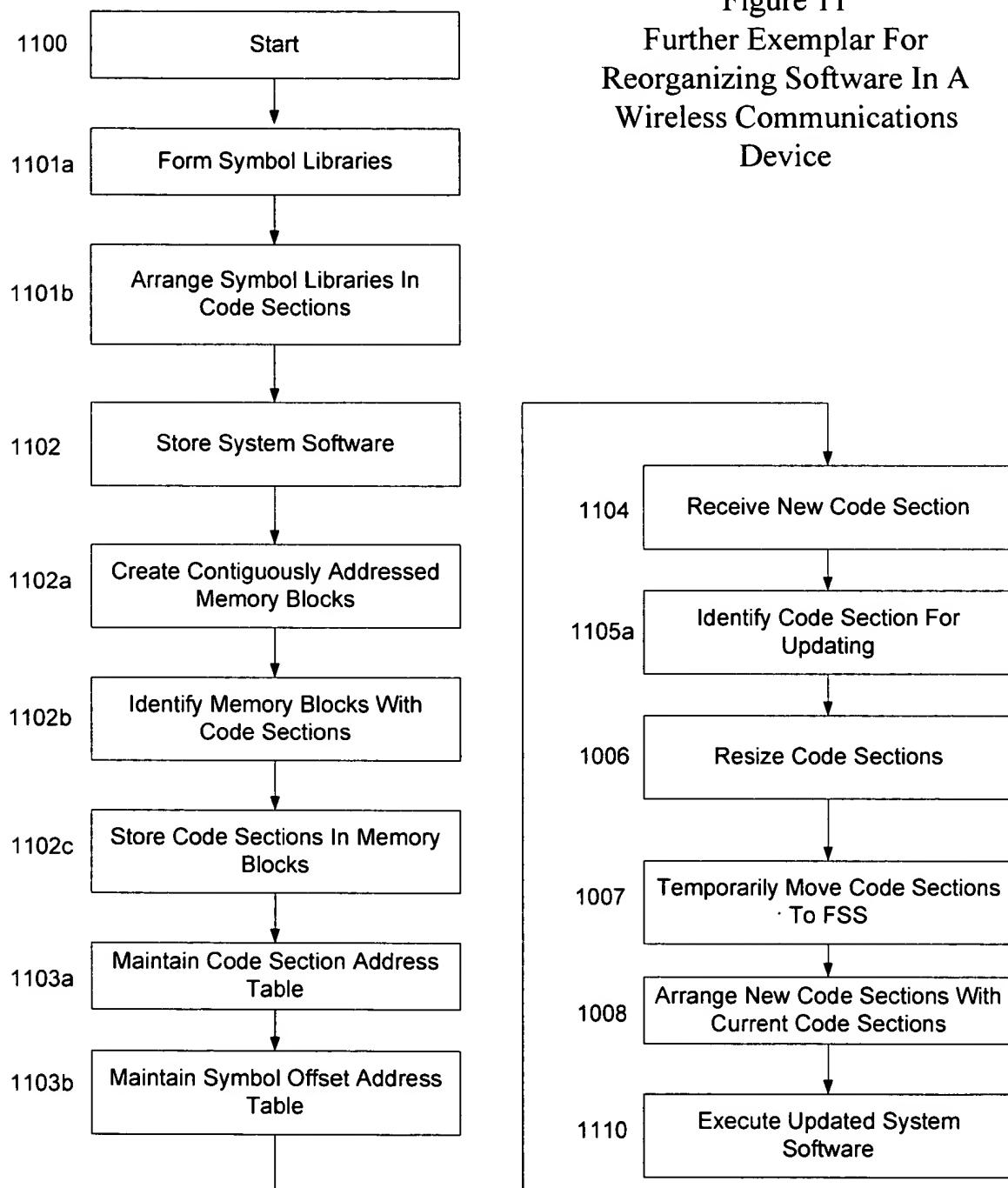


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**Figure 11**  
Further Exemplar For  
Reorganizing Software In A  
Wireless Communications  
Device